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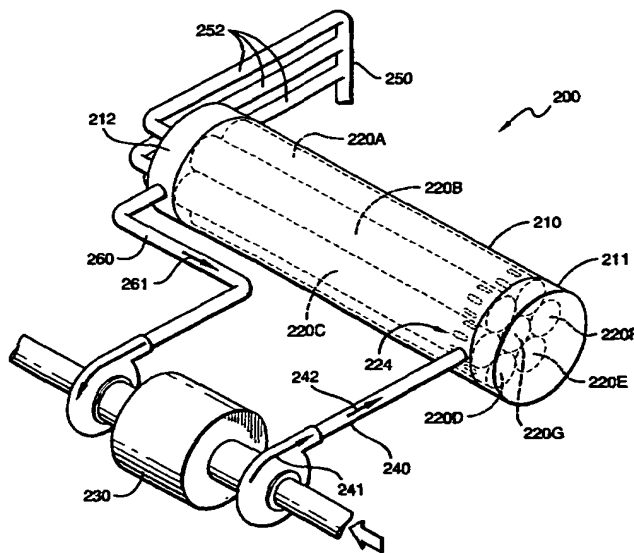
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- (71) Applicant (for all designated States except US): **NATE INTERNATIONAL** [US/US]; 21550 Oxnard Street, Suite 900, Woodland Hills, CA 91367 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CHANCELLOR, Dennis** [US/US]; NATE International, 1101 Cave Creek Road, Falls of Rough, KY 40119 (US). **JENSEN, James** [US/US]; NATE International, 21550 Oxnard Street, Suite 900, Woodland Hills, CA 91367 (US).
- (74) Agent: **FISH & ASSOCIATES, LLP**; 1440 N. Harbor Blvd., Suite 706, Fullerton, CA 92835 (US).
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(54) Title: **FILTRATION USING PRESSURE VESSEL WITH MULTIPLE FILTRATION CHANNELS**



(57) Abstract: A filtration system includes an outer casing (210) that houses a plurality of elongated inner casings (220A-220F), which in turn house a plurality of filtration membranes. The outer casing, inner casing, and filtration membranes are disposed relative to one another to provide a three-flow channel system that provides additional feed fluid at one or more membrane couplings between membranes of the same inner casing. This arrangement defines a feed fluid flow path in which a feed fluid exiting from an upstream filter into a downstream filter is diluted by additional feed fluid.

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